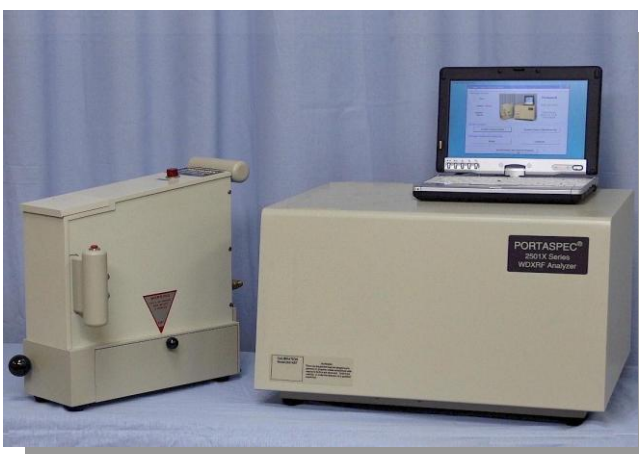


PORTASPEC[®] X Series X-Ray Spectrograph

Model 2501X-2

This 2501 X Series Portaspec[®] is a portable, wavelength dispersive, x-ray fluorescence analyzer that performs nondestructive elemental analysis on a variety of sample types. The 2501 X Series version of the familiar Model 2501 Portaspec is now computer controlled. The standard operating interface utilizes a Windows[®] based touch-screen notebook computer. The control software is simple and



Portaspec Model 2501X-2

intuitive in function and offers a continuous record of analysis. It has a calibration mode that allows for a linear or quadratic fit for an almost unlimited number of standards. It also includes a specialized analysis mode designed to measure pretreatments on metal substrates.

The Portaspec is suitable to analyze from very small specimens to a maximum specimen of 2-9/16" (65mm) in diameter by 1" (25mm) thick. The Portaspec has an x-ray tube that focuses a beam diameter of 0.75" (19mm) on to the specimen under

For more information contact:

analysis. This results in superior statistical data compared to instruments using a micro spot x-ray tube. This is notably important when analyzing pretreatments on galvanized steel substrates.

The new controller circuit board interprets and executes commands from the computer to turn x-rays on and off, set x-ray tube current and read counts on the digital scaler. An mA stabilizer board provides constant current to the x-ray tube. New to the 2501 X Series Portaspec, is a lightweight, high frequency, constant potential high voltage power supply, providing a high level of instrument stability at 10, 20 or 30 kV output.

The Model 2501X-2 Portaspec comes configured with a goniometer capable of analyzing K α elemental lines whose range include from element 22 Ti to 47 Ag and L α lines from 56 Ba to 92 U.

The optional Two-Position Sample Holder enables you to shift from one sample position to another without turning x-rays off. The samples are not loaded over the x-ray port, keeping sample contamination out of the x-ray path. The sample holder can readily accept samples up to 2-9/16" (65mm) in diameter to 1 inch thick.

This Portaspec model is useful for analyzing powders, liquids, solids and thin films, as well as coating weight and coating thickness analysis. This model can be custom configured for special applications, including on-line.

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